


67071 -6

05/11/2000

1/8

	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460	EPA Reg. Number: 67071-6	Date of Issuance: MAY 11 2000
		Term of Issuance: Conditional	
		Name of Pesticide Product: Acticide 45	
NOTICE OF PESTICIDE: <u> X </u> Registration <u> </u> Reregistration (under FIFRA, as amended)			
Name and Address of Registrant (include ZIP Code): Thor Chemie GmbH Landwehrstrasse 1 D-67346 Speyer, Germany			
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.			
On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.			
This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you: 1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4. 2. Make the following label changes: a. Revise the EPA Registration Number to read, "EPA Reg. No. "67071-6".			
Signature of Approving Official: Marshall Swindell, PM 33 Regulatory Management Branch 1 Antimicrobial Division (7510C)		Date: MAY 11 2000	

2/8

Page 2

EPA Registration No. 67071-6

b. Submit two copies of the revised final printed label for the record.

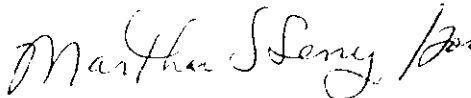
2. The Agency has completed its science review of the Hydrolysis study (MRID 44723201) in support of your registration. The study is acceptable and satisfies the guideline requirement for this hydrolysis study. Please note that the time limited conditions set forth in the July 21, 1999 registration notice for this product have been satisfied. Since the conditions have been satisfied, this new registration is being issued.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,



Marshall Swindell

Product Manager 33

Regulatory Management Branch 1

Antimicrobial Division (7510C)

Enclosure

3/8

ACCEPTED
with COMMENTS
in EPA Letter Dated:
MAY 11 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.

67071-6

ACTICIDE 45

MILDEWCIDE

Acticide 45 label
December 1994
Page 1 of 2

Revised 10/29/97(7/19/99)

ACTICIDE 45 is an industrial microbicide to be used for the protection of paint films, coatings and adhesives against attack by mildew.

ACTIVE INGREDIENT:

2-n-Octyl-4-isothiazolin-3-one..... 46.5%

INERT INGREDIENTS..... 53.5%

TOTAL 100%

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.

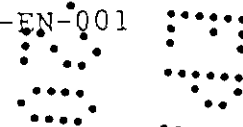
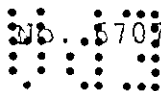
Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENT

MANUFACTURED BY/FOR:



Thor Chemie GmbH
Speyer, Germany



4/8

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Acticide 45 label
Revised 10/29/97(7/19/99
December 1994
Page 2 of 2

67071-6

PRECAUTIONARY STATEMENTSHAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORROSIVE, CAUSES PERMANENT, IRREVOCABLE EYE DAMAGE AND SKIN DAMAGE. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF INHALED OR SWALLOWED. HARMFUL IF ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED OVEREXPOSURE CAN CAUSE CENTRAL NERVOUS SYSTEM EFFECTS AND KIDNEY AND LIVER DAMAGE. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. WEAR GOGGLES AND RUBBER GLOVES. AVOID BREATHING VAPOR OR MIST. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. WASH THOROUGHLY AFTER HANDLING.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an NPDES permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on this label.

CONDITIONS OF SALE AND WARRANTY: Thor Chemie warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. THOR CHEMIE GmbH MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of Thor Chemie GmbH and Seller. Risks such as ineffectiveness or other unintended consequences resulting from, but not limited to, failure to follow label directions will be assumed by the Buyer or User. IN NO CASE WILL THOR CHEMIE GmbH or SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DRY FILM PRESERVATIVE FOR PAINTS, COATINGS AND ADHESIVES

ACTICIDE 45 mildewcide is recommended for the control of fungi in latex and oil based paints, coatings and adhesives (non-food contact). Add two to five pounds of ACTICIDE 45 per 100 gallons of paint. See the accompanying technical bulletin for more detail on the use of stabilizers, optimum pH conditions of use and incompatibilities with other ingredients of paints.

THOR

THOR CHEMICALS, INC.

Brook House, 37 North Ave., Norwalk, CT 06851 U.S.A.
Telex No. 848630 Telephone (203) 846-8612
Fax No. (203) 846-4810

5/8

(7/19/99)

(2/23/00)

TECHNICAL BULLETIN
ACTICIDE 45

GENERAL DESCRIPTION:

ACTICIDE 45 is an effective mildewcide specifically formulated for the protection of aqueous and solvent based products from fungal growth in the dry film state.

COMPOSITION:

ACTICIDE 45 is described chemically as 2-n-Octyl-4-isothiazolin-3-one. It is one of a comprehensive range of biocides manufactured by Thor worldwide and is metal and formaldehyde free.

TYPICAL PROPERTIES:

ACTICIDE 45 has the following typical properties:

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67071-6

Property
Appearance
Flash point
Boiling point
Freezing point
Odor
Specific gravity
Solubility

Analysis
Clear yellow liquid
92 degrees C
187 degrees C
-13 degrees C
No distinct odor
1.03 g/cm³ (20 degrees C)
Soluble in alcohols, mineral
spirits, and minimally soluble
in water (0.525 g/L at 22
degrees C)
49.5 m Pas, 20 C (capillary)

Viscosity

DIRECTIONS FOR USE:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

BIOCIDAL PROPERTIES:

ACTICIDE 45 is very effective in preventing the growth of fungi known to degrade paint films and coatings in the dry state. It also shows some activity against bacterial growth in the wet state. Product activity applies to a wide spectrum of fungi commonly associated with product failure. Some of these organisms are as follows:

Alternario sp.
Aspergillus sp.
Aureobasidium sp.
Candida albicans (yeast)

Ceratocystis sp.
Cladosporium sp.
Sclerophoma sp.
Streptomyces sp.

APPLICATIONS:

ACTICIDE 45 is recommended for the dry state protection of films for most interior and exterior paints and coatings including aqueous and solvent based paints and wood stains, varnishes, textured coatings, adhesives (non-food contact), fillers and sealants. In addition, ACTICIDE 45 in solvents such as white spirits and kerosene provides an ideal fungicidal pretreatment for surfaces prior to coating.

6/8

(7/19/99)

(2/23/00)

- 2 -

QUANTITIES OF USE:

The amount of ACTICIDE 45 needed to protect dry paint films varies with the type formulation and exposure conditions of the film (e.g. indoor vs. tropical climates). Generally two to five pounds of ACTICIDE 45 are used per 100 gallons of paint. Similar application levels are used with oil based paints or coatings. In industrial adhesives mildew resistance is obtained using such levels on a weight/weight basis--i.e., two to five pounds of ACTICIDE 45 per 1000 pounds of adhesive. Also, reported uses of ACTICIDE 45 with zinc oxide in paints have been shown to be very effective. For example, with three pounds per gallon of the ACTICIDE 45, 25 to 50 pounds of zinc oxide can improve performance significantly, especially under stringent conditions such as in a tropical environment. The Thor Microbiological Laboratories will assist in the determination of the optimum quantity required by your product. This facility is especially helpful where information is required about a formulation which has a greater than usual susceptibility to microbiological spoilage and/or is to be used in an area where the environmental conditions are particularly conducive to fungal growth.

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METHOD OF USE:

ACTICIDE 45 can be incorporated with most paint and coating products at any stage in the manufacturing process. It is preferably added in the let-down stage during manufacture of the paint. Add slowly with good agitation. Add slowly with good agitation just before addition of thickener. ACTICIDE 45 is used in oil based paints at a level similar to those used in latex products. The use of lithopone or other sulfide type pigments is not recommended with this Acticide. Additional solvent glycols or cellosolves may be useful to help dissolution.

COMPATIBILITY:

ACTICIDE 45 is compatible with most raw materials used in microbiologically susceptible products. However, it may be deactivated by ammonia and amines at higher pHs. Contact of ACTICIDE 45 with strong oxidizing or reducing agents should also be avoided. Stabilizers can be used to protect the ACTICIDE 45. Thor's technical service facilities will gladly assist in identifying a suitable stabilizer, or a method of stabilization, appropriate to your particular formulation.

7/8
(7/19/99)

(2/23/00)

- 3 -

**PRECAUTIONARY
STATEMENTS:**

The following precautions should be observed
in handling and using ACTICIDE 45.

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS
DANGER
KEEP OUT OF REACH OF CHILDREN

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison
Control Center. Drink 1 or 2 glasses of water
and induce vomiting by touching back of throat
with finger. If person is unconscious, do not
give anything by mouth and do not induce
vomiting. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and
water. Get medical attention.

IF INHALED: Remove victim to fresh air. If
not breathing, give artificial respiration,
preferably mouth-to-mouth. Get medical
attention.

IF IN EYES: Hold eyelids open and flush with
steady, gentle stream of water for 15 minutes.
Get medical attention.

Note to Physician: Probable mucosal damage may
contraindicate the use of gastric lavage.

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SAFETY AND HANDLING:

It is recommended that protective clothing be
worn when handling ACTICIDE 45. This material
is corrosive, and chemical resistant gloves
such as those made from butyl rubber should be
worn and immediately discarded if there is any
indication of tears or break-through. Respira-
tory protection is required if exposure limits
are exceeded. Chemically resistant aprons are
advisable.

PACKAGING:

ACTICIDE 45 is delivered in plastic drums
containing 25 kg net and in polythene lined
steel drums containing 200 kg net.

ECOLOGY:

ACTICIDE 45 is toxic to fish and to wildlife.
Do not discharge effluent containing this
product into lakes, streams, ponds, estuaries,
oceans or public waters unless this product is
specifically identified and addressed in an
NPDES permit. Do not discharge effluent con-
taining this product to sewer systems without
previously notifying the sewage treatment
plant authority. For guidance contact your
State Water Board or Regional Office of the
EPA. Do not contaminate water by cleaning of
equipment or disposal of waste. Apply this
pesticide only as specified on this label.

8/8

(7/19/99)

(2/23/00)

- 4 -

TOXICOLOGY:

Detailed examination by independent industrial toxicological laboratories has shown ACTICIDE 45 to the following toxicity:

Acute Oral LD ₅₀ (rat)	279 mg/kg
Acute Dermal LD ₅₀ (rat)	>2000 mg/kg
Acute Inhalation LC ₅₀ (4 hr/rat)	0.60 mg/l
Primary Skin Irritation (rabbit)	Severe
Skin Sensitization (Guinea pig)	Delayed contact hypersensitivity

STORAGE:

ACTICIDE 45 should be stored in the original containers and, in accordance with good stock rotation practice, should be used within 12 months of purchase, being protected from extremes of temperature during storage.

TRANSPORTATION:

DOT hazard class 8 (corrosive material). DO NOT STORE OR SHIP IN UNLINED METAL CONTAINERS. USE ONLY ORIGINAL CONTAINERS.

SPILLAGE/DISPOSAL:

Spilled material should be diked and absorbed into an inert material such as clay or vermiculite and the absorbent transferred to a pail or other suitable vessel. Treat with freshly prepared 5% solutions of sodium hypochlorite and sodium bicarbonate mixed together in order to deactivate the ACTICIDE 45. Local surfaces of the spill may be decontaminated with a mixture of 5% sodium hypochlorite solution and a 5% solution of sodium bicarbonate.

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The information contained herein is given without any warranty express or implied, except that such information is to the best of our knowledge and belief, true and accurate. Thor recommends that customers independently test and evaluate its products in order to decide their safety and effectiveness.

In submitting this information, no liability is assumed nor permission given to induce or recommend to practice any patented invention without a license.

MANUFACTURED BY/FOR:

Thor Chemie GmbH
Speyer, Germany

December 1994

Revised 10/29/97 (7/19/99) (2/23/00)